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ILLUSTRATIONS OF NEW UNIONIDÆ.

Plate I, figs. 1, 2, 5, *Unio superiorensis* Marsh. For description see NAUTILUS for January, 1897, p. 103.

Figs. 3, 4, *Unio Askewi* Marsh. Description in NAUTILUS for December 1896, p. 91.

Figures are natural size. The specimens illustrated have been placed by Mr. Marsh in the Museum of the Academy of Natural Sciences of Philadelphia.

LIST OF SPECIES COLLECTED AT BAHIA, BRAZIL, BY DR. H. VON IHERING.

IDENTIFIED BY W. H. DALL.

The following species of shells were collected under the direction of Dr. H. von Ihering at Bahia, except when otherwise stated, and were forwarded to the National Museum for identification. This list includes only the doubtful species which could not be named with the literature available at the San Paulo Museum. Dr. von Ihering will eventually publish a complete list of the Brazilian coast fauna; meanwhile these identifications may be useful for reference. The remarkable thing about the collection, made 500 miles south of Cape San Roque and 2,200 miles beyond the mouth of the Amazon, is its typically Antillean character, resembling the fauna of the Bahamas. This indicates (if there be no uncertainty as to the

provenance of the specimens) that the present distribution of the coast fauna antedates the present volume of the Amazonian discharge, since it would seem incredible that so many thoroughly littoral species should be able to cross the present area of some hundreds of miles of fresh water in either direction. A few species marked with an asterisk are inserted on Dr. v. Ihering's authority.

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| Melampus flavus Gmel. | Janthina communis Lam. |
| Bulla striata Brug. | Janthina exigua, Bahia. |
| Terebra cinerea Born, San Paulo. | Tritonium tritonis var. nobile |
| Conus verrucosus Hwass. | Conr. |
| Conus mus Hwass. | Tritonium femorale L. |
| Conus daucus Hwass. | Tritonium chlorostomum Lam. |
| Drillia albinodata Reeve. | Lambidium oniscus L. |
| Drillia albocincta C. B. Ads. | Ranella ponderosa Reeve. |
| Mangilia limonitella Dall. | Cassis tuberosa.* |
| Olivella jaspidea Gmel. | Dolium perdix* L., replacing D. |
| Olivella nivea Gmel. | galea of San Paulo. |
| Marginella bullata.* | Trivia suffusa Gray. |
| Marginella largillierti.* | Cypræa cinerea Gmel. |
| Volvarina fusca Sby. | Strombus pugilis L., Bahia and |
| Mitra nodulosa Gmel. | southward. |
| Turbinella ovoidea Kien.* | Strombus costatus Gmel. (not |
| Fasciolaria aurantiaca Lam.* | south of Bahia, v. Iher.). |
| Leucozonia cingulifera Lam. | Strombus gallus L. (not south of |
| Pisania pusio var. jancirensis | Bahia, v. Iher.). |
| Orb. | Cerithium literatum Born. |
| Tritonidea tineta Conr. (!) | Cerithium algicola C. B. Ads. ? |
| Nassa vibex Say, Rio. | Cerithium atratum var. varia- |
| Nassa aubigua Mtg. | bile? Ads. |
| Anachis albella C. B. Ads. | Modulus modulus L. |
| Anachis catenata Sby. | Siphonium nebulosum Dillw. |
| Nitidella nitidula Sby. | Vermicularia spirata Phil. |
| Columbella mercatoria L. | Petalocochus irregularis Orb. |
| Murex pomum Gmel.* | Crepidula plana Say. |
| Coralliophila galea Ch. | Amalthea antiquata L. |
| Sistrum nodulosum C. B. Ads. | Capulus incurvatus Gmel. |
| Purpura hæmastoma Lam., typi- | Polynices porcellana Orb. |
| cal, Rio Grande do Sul. | Polynices lactea Gmel. |
| Purpura hæmastoma var. trini- | Polynices caudidissima Recl.* |
| tatensis Guppy. | replacing the next. |

Polynices brunnea Link., San Paulo.	Area auriculata.*
Polynices rufilabris Rve.*	Area candida Ch., San Paulo.
Natica canrena Lam.	Lucina costata Conr. .
Natica pusilla Say (!).	Chama congregata Conr.
Natica sulcata Lam.	Cardium levigatum L.
Acmaea onychina Gld.	Venus pectorina Lam. (also S. Paulo).
Phasianella minuta Anton.	Venus cribraria Conr.
Uvanilla americana Gmel.	Venus circinata Born.
Astraliium tuber L.	Venus subrostrata Lam. (beaui Recl.).
Omphalius hotessierianus Orb.	Cytherea varians Wood.
Calliostoma jucundum Gld.	Dosinia concentrica Born, S. Paulo.
Calliostoma jujubinum Gmel.	Lucinopsis tenuis Recl., S. Paulo.
Submarginula octoradiata Gmel.	Tagelus mollis Gould, Rio Grande do Sul.
Fissurella rosea Gmel.	Tagelus gibbus Spengl. (+ plattensis Orb.).
Fissuridea alternata Say.	Macoma constricta Brug.
Plicatula ramosa Lam.	Mactrella Iheringi Dall, n. sp., San Paulo.
Spondylus spathuliferus var. inermis.	Semele reticulata Gmel.
Pecten ornatus Lam.	Bouchardia rosea Mawe (Rio?).
Mytilus exustus Lam.	
Botulina opifex Say.	
Area jamaicensis Gmel.	
Area imbricata.*	
Mactrella Iheringi n. sp.	

Shell thin, white, inflated, with small and prominent beaks, externally with fine concentric, and a few irregular, radial lines, and a silky-yellowish epidermis, the beaks median, smooth, with an obsolete posterior keel, the lunular region widely and deeply impressed; hinge of the subgenus, the pallial sinus angular, reaching to the vertical of the beaks. Lon. 65.0; alt. 52.0; diam. 32.0 mm.

ISAAC LEA DEPARTMENT.

[Conducted in the interest of the Isaac Lea Conchological Chapter of the Agassiz Association by its General Secretary, Mrs. M. Burton Williamson.]

Volume 8 of the Transactions has begun its annual round of the Chapter members. It will be some time before every member has